

Exhibit C



Deposition of:
Rebecca Betensky , Ph.D.

June 23, 2017

In the Matter of:

**In Re: Bard IVC Filters Products
Liability**

Veritext Legal Solutions
1075 Peachtree St. NE , Suite 3625
Atlanta, GA, 30309
800.808.4958 | calendar-atl@veritext.com | 770.343.9696

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1 literature. So, so I would expand it in that way.

2 Q I think that's helpful. We're going to get
3 to this at a little bit later because I think it's
4 important to delineate the topics that you have
5 expertise in to the topics that you obviously are going
6 to say that's for somebody else, okay.

7 For example, you're not an engineer, right?

8 A I'm not an engineer.

9 Q Right. So for the purpose of my question, I
10 think you might understand what I'm driving at a little
11 bit better, in this case you're employing your
12 expertise in the field of biostatistics and the
13 application of statistics to various data sets; is that
14 right?

15 MR. MANKOFF: Object to form.

16 A I think it's broader than that. I -- again,
17 I'll -- I would like to emphasize that I have, you
18 know, 25 years of experience as a Ph.D.-level
19 statistician who has collaborated extensively with
20 investigators in the medical field, and so I have quite
21 a bit of expertise in the application of statistics to
22 medicine, to medical studies, to epidemiological
23 studies.

24 Q Understood. And you raise a good point.

25 When I took a look at your CV, you had many,

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1 many articles in the world's published literature,
2 right?

3 A I'm sorry, in the what?

4 Q There are many articles listed in your CV
5 where you've collaborated with experts in the field of
6 medicine in various disciplines, right?

7 MR. MANKOFF: Object to form.

8 THE WITNESS: Can you repeat that,
9 please.

10 Q You've published numerous times, right?

11 A Yes.

12 Q Many, many times, right?

13 MR. MANKOFF: Object to form.

14 A Many -- if many, many -- by many, many you
15 mean about 200, plus or minus, then yes.

16 Q You often collaborate with subject matter
17 experts in various fields of medicine when you publish
18 an article, right?

19 MR. MANKOFF: Object to form.

20 A I -- yes, many of my publi -- many of my
21 publications are collaborative publications with
22 experts in medicine and science.

23 Q For example, I've noticed on your CV various
24 publications relating to aspects of the care and
25 treatment of cancer patients, right?

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1 A Care and treatment. I have some cancer-
2 related publications. Many of them are lab related or
3 technologic -- technol -- genetic- or genomic-related
4 kinds of publications in cancer. Some of them are -- a
5 few of them may be treatment related.

6 Q I've seen publications related to issues in
7 the field of nephrology, right?

8 A Yes.

9 Q In those publications you are a coauthor
10 along with various medical doctors who are experts in
11 the underlying medicine in the article that you're
12 writing about, right?

13 A Correct.

14 Q And that's totally routine for you is what
15 I'm driving at, right?

16 A I've, I've done it regularly over many years,
17 yes.

18 Q It's common practice for a statistician and a
19 biostatistician like yourself to collaborate with
20 subject matter experts in the various medical fields in
21 which they're publishing. It's routine, right?

22 A I'm sorry if this is overly picky, but
23 it's -- there are many statisticians who don't
24 collaborate at all in the medical field or don't
25 collaborate at all because they're purely theoretical.

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1 of biostatistics, it is relatively common in your
2 experience for biostatisticians like yourself to
3 collaborate with medical doctors who are experts in the
4 underlying medical issue that is the subject of the
5 paper, right?

6 MR. MANKOFF: Object to form.

7 A So let me rephrase your question, and you can
8 tell me if I get this right.

9 I would -- I can answer that and say within
10 my department of biostatistics at the Harvard Chan
11 School of Public Health, my colleagues, other faculty
12 within that department and myself commonly collaborate
13 with medical and public health and basic science
14 experts in the development of both statistical
15 methodology and in collaborative research, and everyone
16 is usually an author -- a coauthor on the paper that
17 comes out of that.

18 Q Totally on the same page now. I understand.

19 Here's the question. In your department at
20 Harvard it is common and routine for you to collaborate
21 with various public health experts, experts in the
22 underlying medicine on whatever research it is you are
23 doing, and ultimately, you will all be coauthors on
24 whatever paper you were writing, right?

25 MR. MANKOFF: Object to form.

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1 A I do that activity frequently.

2 Q Did you collaborate with anybody in order to
3 create the opinions that you're proffering in this
4 case?

5 MR. MANKOFF: Object to form.

6 A I'm sorry. What do you mean by collaborate
7 with anybody?

8 Q Did you work with any other person, other
9 than an attorney, in order to create the opinions that
10 you've offered in this case?

11 A No, I did not.

12 Q Let's take a look to see what else we have in
13 this folder. I have -- where are we? We've marked
14 Exhibit No. 3?

15 You've also provided us a list of -- an
16 updated list of cases where you have testified, right?

17 A Yeah.

18 Q What period of time does this list cover?

19 A May I see the list, please.

20 Q Absolutely.

21 MR. BUSMAN: I'm going to mark it as
22 Exhibit 4.

23 (Exhibit 4 marked
24 for identification)

25 A So this goes back to 2013 which I believe --

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1 these filters are actually removed if necessary, right?

2 A Other than knowing that some of them at least
3 have a hook that is used for the removal, retrieval.

4 Q You have no understanding of how an IVC
5 filter could be damaged during the course of a
6 retrieval, do you?

7 A No.

8 Q You're not an expert in the manner in which
9 potential filter adverse events are detected, are you?

10 A Not in how they are clinically detected.

11 Q You're not a -- strike that.

12 You're not an expert in the differences in
13 how adverse events are clinically detected in
14 retrievable filters versus permanent filters, right?

15 A Correct.

16 Q You don't hold yourself out as having any
17 expertise in the percentage of filter adverse events
18 that are detected only upon filter removal, right?

19 A Again, as I mentioned, this does touch upon
20 work that I've done in a non-Bard case.

21 Q Okay. Let me make that distinction.

22 In this litigation you're not holding
23 yourself out as having any expertise in the percentage
24 of filter adverse events that are first detected during
25 the process of filter removal, right?

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1 A Correct.

2 Q You're not an expert in the process by which
3 a device company would report an adverse event to
4 MAUDE, are you?

5 A I'm not sure what you mean by an expert in
6 that. I understand that a company is required to
7 report to MAUDE.

8 Q Do you hold yourself out as an expert in the
9 FDA rules, regulations, and guidance related to
10 submitting adverse event reports to MAUDE?

11 A I'm not an expert in those regulations.

12 Q Let's make it easy.

13 You don't hold yourself out as an FDA
14 regulatory expert, do you?

15 A If -- I -- if there is a, such a thing as an
16 FDA regulatory expert, I am not that.

17 Q Now, in this case you analyzed adverse events
18 and compared -- strike that.

19 In this case you derived a reporting risk
20 ratio comparing the number of adverse events reported
21 to MAUDE for the Simon Nitinol filter versus the number
22 of reports to MAUDE for the various retrievable filters
23 we've discussed, right?

24 MR. MANKOFF: Object to form.

25 A Not exactly. So, so first of all, that

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1 to me the assumptions that you were required to make
2 and the purpose that you were making them for.

3 MR. MANKOFF: Object to form.

4 A So there's plenty of interpretation that can
5 be made about a reporting risk ratio without any
6 assumptions at all, in, in that it is a reporting risk
7 ratio and it shows -- you know, it is of a certain
8 magnitude and -- but if, if that reporting risk ratio,
9 in order to go -- draw inferences about the risk ratio
10 from the reporting risk ratio, that's where assumptions
11 are required.

12 Q Got it. I hope.

13 The reporting risk ratio that you calculated
14 is completely divorced from any assumptions that you
15 later employed to make inferences about the risk ratio,
16 right?

17 MR. MANKOFF: Object to form.

18 A No, I don't think I can say that. I mean the
19 reporting risk ratio is a number, and along with that
20 number has to have -- you know, I, I would provide or I
21 did provide an explanation of where that number comes
22 from. So it's just a number, and it has sources of
23 information that went into its calculation. That's the
24 reporting risk ratio.

25 Q The reporting risk ratio that you --

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1 Q Did you make any assumptions about the
2 reporting rates in connection with your analysis in
3 this case?

4 A Again, the analysis stands alone without the
5 assumptions, and it's only going from the reporting
6 risk ratio to the risk ratio where these essential --
7 where, where these assumptions would be used. Now, the
8 magnitude of the -- these reporting rates also can be
9 informative about the risk ratio.

10 Q Did you make any assumptions with respect to
11 differential reporting between the permanent SNF filter
12 and the various retrievable filters in order to help
13 you provide any opinions at all in this case about the
14 reporting risk?

15 A So, so one assumption is I think in my
16 rebuttal to Dr. Thisted's I expanded upon it in that
17 report, in that rebuttal report.

18 And one assumption is that, is that there may
19 be -- is that if there is differential reporting one
20 would expect it to be pretty constant across some of
21 the adverse events that are similar in level of
22 seriousness.

23 Q Did you consult or confer with anybody that
24 has any medical expertise with respect to the products
25 at issue to determine whether your assumption that the

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1 difference in reporting for the devices would be
2 consistent?

3 MR. MANKOFF: Object to form.

4 A It seems obvious to me that, that as long as
5 the events are of comparable seriousness that that
6 would follow.

7 MR. BUSMAN: I'm going to move to
8 strike.

9 Q Did you consult with anybody that has any
10 medical expertise with respect to the adverse events at
11 issue to determine whether your assumptions that the
12 differential reporting -- whether your assumptions
13 about differential reporting hold true?

14 A No.

15 Q What, if anything, did you do in this case to
16 definitively rule out the possibility that your
17 calculations are not the product of differential
18 reporting between SNF and the various retrievable
19 filters?

20 A So I think I expanded upon that in my
21 rebuttal to Dr. Thisted and -- would you like me to
22 continue?

23 Q Please.

24 A And so, so under that assumption, which
25 seemed very reasonable to me, and other assumptions, a

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1 you any documents from any source reflecting adverse
2 events for the SNF prior to 2000?

3 A No.

4 Q As we sit here today do you have any idea how
5 many reports there may have been with respect to filter
6 fracture for the SNF from the time it was sold in 1990
7 until to 2000?

8 A No, I don't know.

9 Q Do you have any idea, as we sit here today,
10 how many reports of migration there may have been for
11 the SNF from 2000 -- strike that.

12 As we sit here today do you have any idea how
13 many reports there may have been from 1990 up to 2000
14 for migration with respect to the NSF -- SNF?

15 A I don't know that number.

16 Q Same for embolization?

17 A I don't know that number.

18 Q Do you know the answer with respect to any of
19 the adverse events you considered in this case?

20 A I don't know the numbers of adverse events
21 for SNF prior to 2000.

22 Q Now, for the various other removable filters
23 that you considered, you utilized Bard data that you
24 understood captured a period of time from market
25 introduction all the way up to the end of the period

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1 that you calculated, right?

2 A I believe that's true. And by removable you
3 mean retrievable according to how we've defined it.

4 Q Yes.

5 Now, you've described something previously
6 called the Weber effect, right?

7 A Correct.

8 Q And the shorthand version of that is that
9 statisticians like yourself and folks who have
10 expertise in the measurement of adverse events in the
11 statistical sense understand that the greatest number
12 of reports for a given product happen shortly after
13 market introduction, right?

14 MR. MANKOFF: Object to form.

15 A I believe that can happen. It's not a
16 necessary event that it happened, but I believe it can
17 happen.

18 Q In a general sense it is understood in the
19 statistical community that the majority of adverse
20 reports likely occur with respect to a product shortly
21 after it hits the market, right?

22 MR. MANKOFF: Object to form.

23 A No, I don't think that would be true because
24 certainly some adverse events take time to happen, and
25 so -- so I guess the Weber effect would need -- if you

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1 Q What page?

2 A I'm looking at the first paragraph on page 1.
3 -- that I considered the Bard AE reports, and
4 the first one was 2000 to the second quarter of 2003.
5 And again, I'm, I'm assuming for the purposes of our
6 conver -- of our -- of your question that that means
7 that the AEs were not cumulative over the entire life
8 of the product, but only began in 2000.

9 And so under that assumption that I don't
10 actually have adverse events from prior to 2000, then,
11 then that is true that I did not consider adverse
12 events before 2000. For -- right. Yeah.

13 Q To the extent that you did not have adverse
14 events for the SNF prior to 2000, you've done nothing
15 in the expert reports you've served so far in this case
16 to determine what impact, if any, those pre-2000
17 adverse event reports would have on the calculations
18 that you've submitted in this case, true?

19 A I would also need to know the sales numbers
20 prior to 2000. So I have not considered sales prior to
21 2000 or adverse events, as far as I know, prior to
22 2000.

23 Q Because you have not considered either
24 adverse events reports -- strike that.

25 Because you have neither considered adverse

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1 event reports prior to 2000 nor sales reports prior to
2 2000 for the SNF, there's nothing in any of the reports
3 that you've served so far in this case to indicate what
4 impact, if any, those pre-2000 adverse event reports
5 and sales would have on the calculations that you've
6 derived, true?

7 A I didn't do any analysis of pre-2000 adverse
8 events or sales for SNF.

9 Q You have no idea, as we sit here today,
10 whether or not pre-2000 adverse event reports for the
11 SNF would indicate that there is no difference for the
12 null value with respect to the RRRs that you
13 calculated, right? You just don't know.

14 A I don't have the reporting risk ratio
15 including SNF going back to 2 -- prior to 2000.

16 Q It's entirely possible that had you had
17 adverse event data for the SNF prior to 2000 and the
18 sales data prior to 2000 that you would not have
19 calculated any higher RRRs for the various removal
20 products as compared to the SNF. You just don't know,
21 right?

22 A I don't know what happened before 2000 on the
23 sales or the, the adverse events or whether that's any
24 different from what happened after 2000.

25 Q Good point. Let me try to clarify that.

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1 Because you didn't have data for adverse
2 events for SNF prior to 2000 and you didn't have sales
3 data for SNF prior to 2000, there's no way for you, as
4 you sit here today, to say that if you had that data
5 and calculated reporting risk ratios perhaps the
6 reporting risk ratios would be greater for SNF over
7 removable, maybe they'd be lower. You just don't know
8 one way or another, right?

9 A I don't have the data so I don't know what
10 the number would be if I had had the data. It could
11 go -- like you said, I could get -- I could have gotten
12 RRs that are larger than what I got. I could have
13 gotten RRs that are smaller than what I got.

14 Q Now, because you didn't have adverse --
15 strike that.

16 Based on the Weber effect, it would be more
17 likely to find the greatest number of adverse events in
18 connection with the SNF sometime within the first ten
19 years it was on the market, right?

20 MR. MANKOFF: Object to form.

21 A So --

22 THE WITNESS: I'm sorry. Can you
23 restate that?

24 Q We were going -- I had asked you some
25 questions about the Weber effect, and, and perhaps I

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1 number of reports in connection with the SNF sometime
2 during the period between 1990 when it hit the market
3 and 2000 when you started your analysis?

4 MR. MANKOFF: Object to form.

5 A I do know, and I'm reading in my report right
6 now, that although the SNF was lunched in 1990, the
7 first death associated with it was not -- did not occur
8 until 1997. So that's just one piece of information.
9 But I don't know, I don't know whether the Weber effect
10 was in play here or not.

11 MR. BUSMAN: Okay. I'm going to object
12 and move to strike everything other than you don't know
13 whether the Weber effect was in play or not.

14 Q As you sit here today do you know how many
15 reports of death there were for the SNF between 1997
16 and 2000?

17 A No.

18 Q Now, you had Bard data reflecting reports of
19 adverse events for every other removable filter that
20 we've discussed starting at the time of product launch
21 going through the end of your analysis, right?

22 A I believe that's what I had.

23 Q You've also stated in your expert report that
24 as a general proposition there are more -- it is more
25 likely that MAUDE will get reports of adverse events

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1 for newer devices on the market as opposed to older
2 devices, right?

3 MR. MANKOFF: Object to form.

4 A Again, my understanding is that this is a
5 sys -- it's a complex system and that is -- one driver
6 of reporting is the newness of the device, but there
7 are other -- may be other drivers as well.

8 Q Let me see if I can restate that.

9 One driver of reporting that you understand
10 exists for medical devices in a general sense is that
11 newer medical devices are likely to receive more
12 reports as recorded in MAUDE than older devices, right?

13 A I don't know about likely. I can't say are
14 likely to. I can say that's a possibility.

15 Q Let me try it again.

16 You recognize that it's possible that newer
17 devices have more MAUDE reports of adverse events than
18 older devices, right?

19 A That's possible.

20 Q In your analysis you captured periods in
21 which the removal devices were new to the market,
22 right?

23 A Yes.

24 Q In your analysis you didn't start considering
25 adverse events for the Simon Nitinol filter until it

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1 had been on the market for over ten years, right?

2 A I believe that's true.

3 Q *You did not do an apples-to-apples
4 comparison of time periods for any of the removable
5 filters as compared to the analogous time periods in
6 which the Simon Nitinol filter had been on the market,
7 right?

8 MR. ROTMAN: Please reread that
9 question.

10 (*Record read)

11 MR. MANKOFF: Object to form.

12 THE WITNESS: I'm sorry. Can you
13 restate that, please.

14 MR. BUSMAN: Sure.

15 Q If you really wanted to do an accurate and
16 meaningful comparison between various of the Recovery
17 filters and the Simon Nitinol filter, you would have
18 wanted to compare MAUDE reports for any of the
19 recoverable filters in the first few years those
20 filters had been on the market as compared to the
21 reports for the first few years when the Simon Nitinol
22 filter was on the market, right?

23 MR. MANKOFF: Object to form.

24 A Well, that's one analysis certainly, but I
25 guess I'm -- or let me back up. But another way of

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1 looking at this would be that what's of interest
2 might -- is really the current status.

3 And, you know, although the SNF came on the
4 market in 1990, perhaps other things have changed in
5 medicine and in treatment of these patients who
6 received these filters and in, you know, ancillary
7 treatments or drugs that are given to them alongside it
8 or how surgery is conducted or any number of things
9 that might have changed from 1990 to 2000.

10 And so, so that would be a reason why it
11 might be more meaningful to compare at a -- at the same
12 time period given that medi -- you know, things in
13 medicine do change quite a bit over ten years, and
14 those might be important factors. And so, so it might
15 be more meaningful to be comparing at that time.

16 Secondly, even if there were no change in
17 medicine in the drugs patients are given or the way the
18 surgery or the procedure is done or anything like that,
19 it is of interest to compare to the current functioning
20 SNF. So that would be I think another reason to -- why
21 this would, would contribute useful information.

22 Q Do you know what, if anything, has changed in
23 the medical practice that might impact your opinions
24 from the ten years that were omitted from your analysis
25 to present or are you just speculating that things have

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1 changed?

2 MR. MANKOFF: Object to form.

3 A Well, it's -- I'm stating this based on my
4 understanding of, of medicine through involvement in
5 clinical trials and through, you know, my, my very --
6 you know, my various involvements in different kinds of
7 medicine that things can change quite a bit over a time
8 period in ways that really matter a lot in terms of how
9 patients do. And that -- that's seen a lot of in
10 clinical trials and so I wouldn't call it speculation.
11 I would call it I'm using my experience and
12 understanding to make that statement.

13 Q Do you know, as we sit here today, what
14 specifically has changed over the ten-year period for
15 which you don't have any information on adverse events
16 for the Simon Nitinol filter up until when you started
17 your analysis in 2000, do you know what has changed
18 specifically that is reflected in your expert reports
19 in this case?

20 A So that's -- I mean that's --

21 MR. MANKOFF: Object to form. Go ahead.

22 A So I'm not a clinical expert so that would be
23 something for a clinical expert to comment on.

24 MR. BUSMAN: Can we go off the record
25 for a moment, folks?

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1 it was that you've, you've done here in this report?

2 MR. MANKOFF: Same objection.

3 A I -- as I'm looking at this now, I -- it
4 appears that I addressed it in some part. It's not --
5 I wouldn't consider it, you know, a complete con -- I
6 didn't completely address -- I didn't comprehensively
7 address each of these. I considered what they are and,
8 and maybe considered some possible responses to them.

9 Q Okay. You didn't comprehensively consider
10 each and every limitation to the data that you analyzed
11 in this case, you, rather, considered some of them,
12 right?

13 A This is a, you know, this is a list, and I'm
14 sure there are additional potential limitations as
15 well.

16 Q Let me jump back. I forgot to ask you a
17 question.

18 What was the specific hypothesis that you
19 were analyzing this in this case?

20 MR. MANKOFF: Object to form.

21 A So the question was a com -- the hypothesis
22 of -- or compar -- compar -- the task or the, the, the
23 purpose was to compare a select set of adverse events
24 between the retrievable filters and the permanent SNF
25 filter.

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1 Q Who provided you the hypothesis that you
2 analyzed?

3 MR. MANKOFF: Object to form.

4 A That was the question that the attorneys
5 asked me to address.

6 Q Am I correct that the attorneys didn't give
7 you a set of data and said analyze the data and tell me
8 whatever it is that you find through various
9 statistical models, but, rather, asked you to analyze
10 and confirm a hypothesis that they had already
11 determined?

12 MR. MANKOFF: Object to form.

13 A They didn't ask me to confirm anything. They
14 asked me to test whether there was a difference in
15 adverse event risks.

16 Q In the cour --

17 A Reported risks.

18 Q Pardon me. Please continue with your ...

19 A That's it.

20 Q In the course of your expert work in this
21 case, at any time did you see any internal Bard
22 documents that had reached the same conclusions that
23 you had with respect to the data that you analyzed?

24 MR. MANKOFF: Object to form.

25 A Yes, more or less. So I have seen a couple

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1 Q Let me start off with I guess a general
2 statement to see if you agree and then we'll drill
3 down, okay.

4 What impact could differential reporting
5 between the Simon Nitinol filter and the various
6 retrievable filters have on your analyses in this case?

7 A So again, it's not -- it would not have an
8 impact on the analysis. It would have an impact
9 potentially on the interpretation of the reporting risk
10 ratio. So if there is differential underreporting or
11 overreporting, then it wouldn't be appropriate to
12 consider the reporting risk ratio as a risk ratio.

13 However, that differential reporting still is
14 not problematic insofar as being able to draw some
15 conclusion about whether the risk ratio is greater than
16 1 or not as I described earlier.

17 So there can be differential reporting, but
18 if that differential reporting is relatively or nearly
19 constant across a set of adverse events of -- you know,
20 within a class of similar degree of seriousness, then,
21 then observ -- observation of variation in the
22 reporting risk ratios is a strong indication of a risk
23 ratio that's greater than 1 or elevated.

24 Q Now, there's a difference between
25 differential reporting and differential detection of

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1 A Well, I would defer to their medical
2 expertise, but that's, that's 50 percent or, you know,
3 some large portion of that piece of information is
4 statistical. So I would need to evaluate how they
5 arrived at their estimate before I could agree with it
6 or accept it.

7 Q What, if anything, did you do in this case to
8 control for the possibility that individuals with
9 asymptomatic adverse events that have retrievable
10 filters only had those symptoms detected when the
11 filter was removed?

12 MR. MANKOFF: Object to form.

13 A I didn't have any information to do anything
14 about that.

15 Q What in -- strike, strike that.

16 What, if anything, did you do to control in
17 your analyses in this case for the possibility that
18 people with asymptomatic adverse events who have
19 retrievable filters are more likely to get imaging
20 follow-up than those with permanent filters? What did
21 you do to control for that in this case?

22 MR. MANKOFF: Object to form.

23 A So again, I'd want to make the distinction
24 between the analysis and the interpretation, and the
25 analysis was simply the calculation based on the data

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1 MR. MANKOFF: Object to form.

2 A I would describe that as interpretation.

3 Q The various limitations that we've been
4 discussing today are significant in your interpretation
5 of the reporting risk ratio as it relates to the risk
6 ratio, right?

7 MR. MANKOFF: Object to form.

8 A Only if they're actual limitations.

9 Q And I think we've discussed this earlier
10 today, but you don't purport to have the medical
11 expertise to provide expert opinions on the various
12 limitations between use of a Simon Nitinol filter and
13 use of a Recovery or other removable filter in various
14 patient populations, right?

15 MR. MANKOFF: Object to form.

16 A I'm not an medical expert in these filters.

17 Q You're not a medical expert in the practical
18 limitations that might impact detection of an adverse
19 event in a removable filter versus a permanent filter,
20 right?

21 THE WITNESS: Can you restate that?

22 MR. BUSMAN: Sure.

23 Q You're not a medical expert when it comes to
24 what might impact the differential discovery and
25 reporting of adverse events in a removable filter

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1 versus adverse events in a permanent filter?

2 A I'm not a medical expert in that.

3 Q Who, if anybody, provided you any guidance in
4 this regard for your report in this case?

5 A In which regard?

6 MR. BUSMAN: Strike that.

7 Q You do attempt to interpret the reporting
8 risk ratio that you calculated in terms of providing
9 some information on an estimated risk ratio, right?

10 A Subject to some assumptions.

11 Q And that's precisely what I was talking about
12 earlier today. Who provided you the assumptions that
13 you used?

14 A The assumptions are, in my view, reasonable
15 assumptions based on, you know, my general
16 understanding.

17 Q Your assumptions are not based on any medical
18 expertise that you have with respect to these filters,
19 right?

20 A I don't have medical expertise.

21 Q Now, I recall in your report which we've
22 marked as Exhibit No. 6 one of the issues was -- strike
23 that.

24 What, if anything, did you do to consider the
25 effect that litigation involving removable IVC filters

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1 might have on the number of reports in the MAUDE
2 database for removable filters?

3 A So again, I wasn't using the MAUDE database
4 directly. I was using Bard's data which as I've said
5 I -- my understanding is overlaps with the MAUDE
6 database, but not necessarily entirely. So, so I'm
7 not -- I don't know how reporting -- I, I didn't take
8 into account potential changes in reporting.

9 Q Based on litigation?

10 A Based on litigation.

11 Q What, if anything, did you do in this case to
12 take into account the fact that the Simon Nitinol,
13 which was ten-years-old at the time that your analysis
14 began, may have been less likely to receive reports
15 than newer products?

16 MR. MANKOFF: Object to form.

17 A So again, I didn't have the data for that
18 first ten years. And, I believe also that there is
19 some value, there is value to be comparing these
20 devices contemporaneously, so at the same time.

21 So if I had had the data for the first ten
22 years, I would have used it. I would have probably
23 done both analyses, the one starting at 2000 to align
24 everything in calendar time when -- you know, to
25 control for medical advance, potential medical

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1 Q It's entirely possible that the increases
2 over time in reporting for the removable products that
3 you noted were related to high profile litigation
4 connected with these products, right? That's possible?

5 MR. MANKOFF: Object to form.

6 A Anything is possible. I suppose.

7 Q You didn't do anything to rule out that
8 possibility, did you?

9 A I don't have -- I didn't have the data to be
10 able to do that kind of level of analysis.

11 Q Now, you also in addition to the analysis
12 that we've been talking about, you did two other
13 analyses as well, the DFMEA analysis and the testing
14 analysis, right?

15 A Yes.

16 MR. BUSMAN: Can we go off the record?

17 THE VIDEOGRAPHER: The time is 2:46 p.m.
18 We're off the record.

19 (Short break was taken.)

20 THE VIDEOGRAPHER: The time is 2:57 p.m.
21 This the beginning of tape 4. We're back on the
22 record.

23 BY MR. BUSMAN:

24 Q Doctor, please take a look at Exhibit 8 which
25 is your supplemental report in this case. Do you have